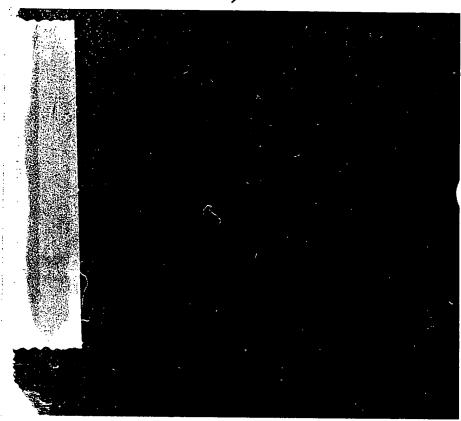
Title of Invention: High Contrast Surface
Marking Using Irradiation of ElectroStatically Applied Marking Materials
Inventor's Name: Harrison, Paul
Serial No: 09/880,391

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F/G. 1



FIG.2

Title of Invention: High Contrast Surface Marking Using Irradiation of Electro-Statically Applied Marking Materials Inventor's Name: Harrison, Paul 09/880,391

Serial No:



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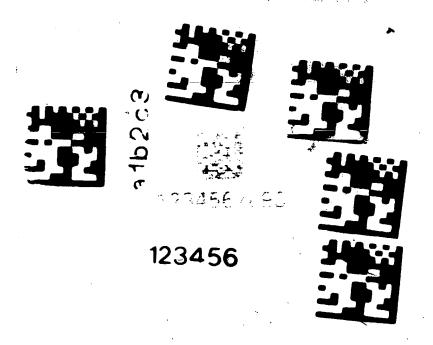
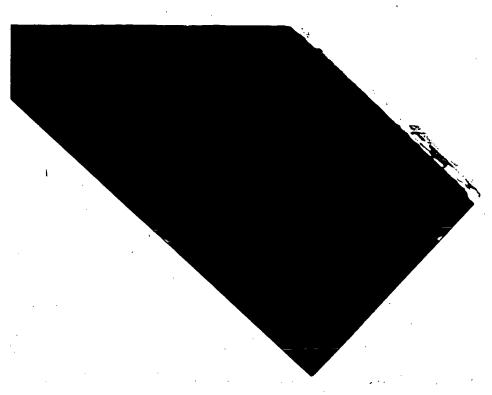


FIG.4

Title of Invention: High Contrast Surface
Marking Using Irradiation of ElectroStatically Applied Marking Materials
Inventor's Name: Harrison, Paul
Serial No: 09/880,391



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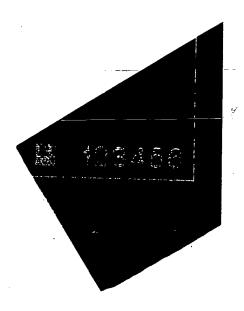


FIG.7

Title of Invention: High Contrast Surface
Marking Using Irradiation of Electro
Statically Applied Marking Materials
Inventor's Name: Harrison, Paul
Serial No: 09/880,391

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Substrate Materials	Marking Materials	Beam Speed	Power (watts)	Freq (Khz/Cw)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	ĊM
Aluminum	Glass Frit	250mm/sec	5 watts	CW
Brass	Mixed Metal Oxide	200mm/sec	5 watts	CW
Ceramic	Glass Frit	200mm/sec	5 watts	CW
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/sec	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

FIG. 8

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Title of Invention: High Contrast Surface Marking Using Irradiation of Electro Statically Applied Marking Materials Inventor's Name: Harrison, Paul Serial No: 09/880,391

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Substrate		Beam	Power	Freq
<u>Materials</u>	Marking Materials	Speed	(watts)	(Khz/Cw)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	ĊW
Aluminum	Glass Frit	250mm/sec	5 watts	CW
Brass	Mixed Metal Oxide	200mm/sec	5 watts	CW
Ceramic	Glass Frit	200mm/sec	5 watts	CW .
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/seç	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec-	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

FIG. 8

Title of Invention: High Contrast Surface Marking Using Irradiation of Electro-Statically Applied Marking Materials Inventor's Name: Harrison, Paul Serial No: 09/880,391

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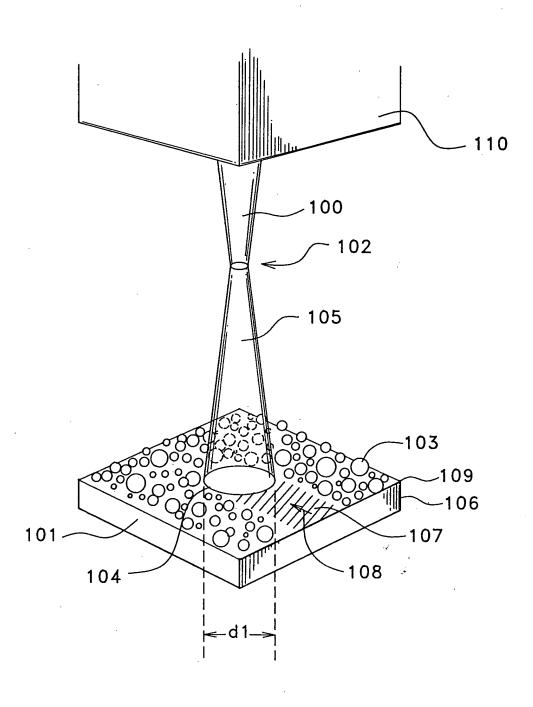
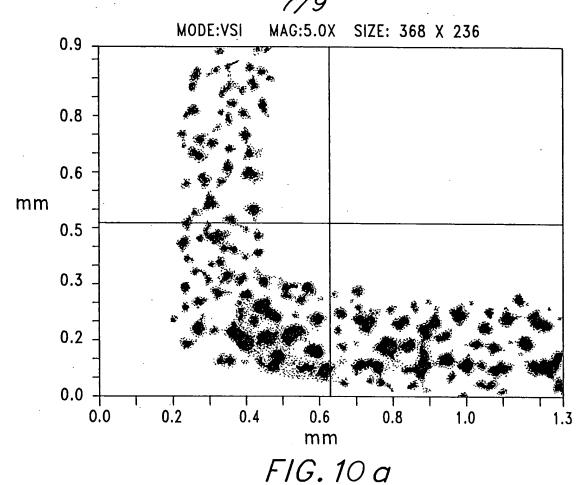


FIG.9

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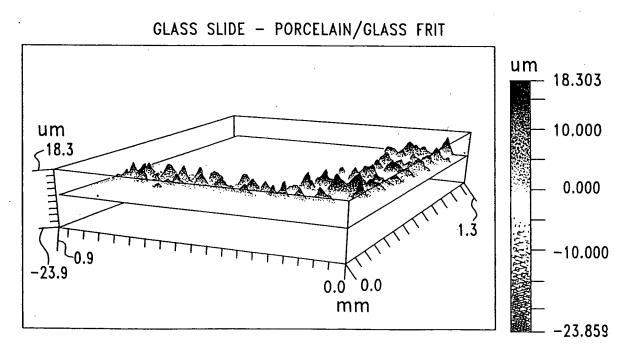
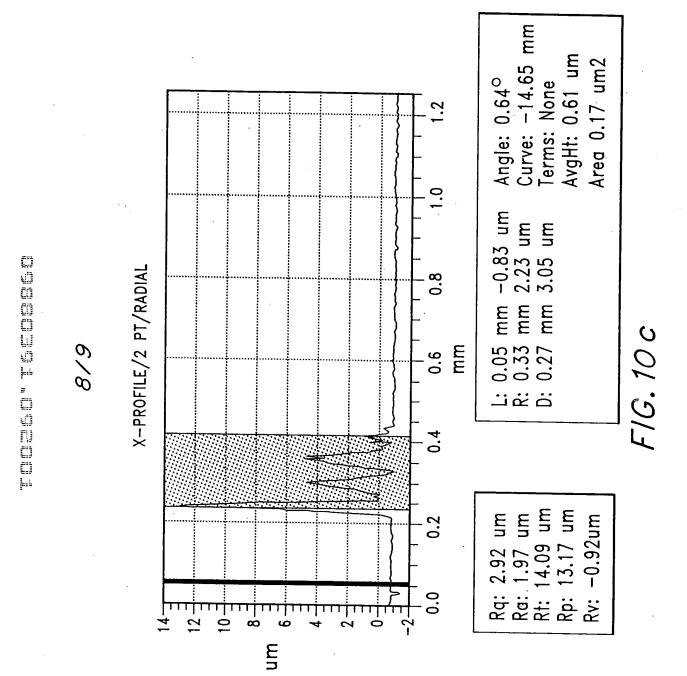
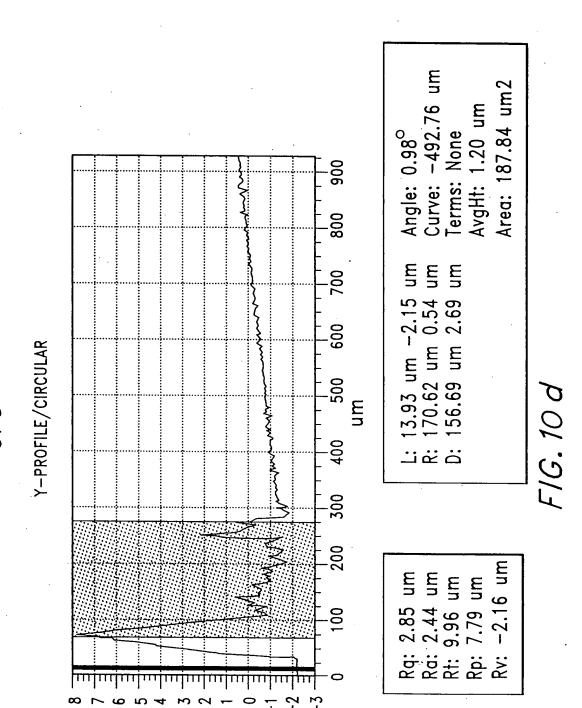


FIG. 10 b







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